

February 6, 2023

Jerome Powell, Chair Board of Governors of the Federal Reserve 20th Street and Constitution Avenue NW Washington, DC 20551 via regs.comments@federalreserve.gov

**Re:** Docket No. OP-1793 – Request for Comment on Principles for Climate-Related Financial Risk Management for Large Financial Institutions

Dear Chair Powell,

It is a pleasure to submit comments on behalf of <u>Ceres</u> and the <u>Ceres Accelerator</u> for Sustainable Capital Markets. Ceres is a nonprofit organization with over 30 years of experience working on climate issues. The Ceres Accelerator works to transform the practices and policies that govern capital markets in order to reduce the worst financial impacts of the climate crisis. It spurs capital market influencers to act on climate change as a systemic financial risk, driving the large-scale behavior and systems change needed to achieve a just and sustainable future and a net zero emissions economy.

Ceres works with leading global investors and companies. Our Investor Network is currently over 220 investors that collectively manage over \$60 trillion in assets. Ceres is a founding partner of the Net Zero Asset Managers Initiative and the Paris Aligned Investor Initiative, which includes investors focused on sustainable investments within their portfolios and other assets. Our Company Network includes approximately 60 of the largest global companies with whom we work in-depth on issues including climate strategy and disclosure.

### I. INTRODUCTION

We congratulate the Federal Reserve (Fed) for designing these Principles for Climate-Related Financial Risk Management for Large Financial Institutions (Principles or Climate Principles). We also commend the Fed for the recent announcement of a <u>climate scenario analysis pilot</u>, establishment of the <u>Supervision Climate Committee</u> and <u>Financial Stability Climate Committee</u>, and interagency Notice of Proposed Rulemaking (NPR) to update the <u>Community Reinvestment Act</u> (CRA) regulations, which includes climate resiliency considerations.

We also recognize that the Office of the Comptroller of the Currency (OCC) and Federal Deposit Insurance Corporation (FDIC) issued substantially similar guidance for comment in December

Ceres Headquarters: 99 Chauncy Street, Boston, MA 02111 California Office: 369 Pine Street, Suite 620, San Francisco, CA 94104 2021 and March 2022, respectively. There is great benefit in the Fed, OCC, and FDIC working together on consistent climate principles. Issuance of uniform, binding guidance by the three banking agencies could avoid regulatory inconsistency, send a strong signal to the banking industry, and ease compliance costs for regulated entities.

### II. REQUEST FOR COMMENT

Below, we provide our comments to the questions posed in the Climate Principles. We have also included an attachment containing operational and tactical recommendations previously submitted to the Fed meant to further support your vital work on climate and the investments required to address the FSOC report recommendations (*see* Attachment 1 at page 23). Because this memo was submitted in December 2021, we note that the Fed has already taken some of the suggested actions.

# A. Question 1: In what ways, if any, could the draft principles be revised to better address challenges a financial institution may face in managing climate-related financial risks?

### 1. Lower the asset threshold for covered financial institutions

We agree with the Fed that all banks, regardless of size, may have material exposures to climate-related financial risks. However, although these Principles closely track the Fed's existing management for large banks, they target only those banks with over \$100 billion in total consolidated assets (i.e., the largest financial institutions).

While this may be a reasonable starting point, all financial institutions face climate-related financial risks, not just those over \$100 billion in assets. Climate change risk permeates all aspects of the capital markets, similar to cyber security risks and the coronavirus pandemic, posing grave threats to banks of all sizes and business models. Moreover this risk is only increasing in terms of frequency and severity. According to NOAA, in 2021 there were 20 separate weather and climate disaster events where losses exceeded \$1 billion costing over \$155 billion; in 2022, there were 18 separate events where losses exceeded \$1 billion, costing at least \$165 billion. The average deaths related to climate disasters each year in the past decade is over 500. Hurricane Ian alone in 2022 resulted in nearly \$113 billion in damages and 152 deaths.

These acute and progressive physical risks have the potential to seriously disrupt the bank market as well as the communities they serve. For example, more than 40 percent of Americans live in counties hit by climate disasters in 2021 and more than 80 percent of Americans experienced a heat wave. Climate impacts are already manifesting in the largest state economies. In just the last few years, California has experienced recording-breaking wildfires, in both number and size, that have taken hundreds of lives, bankrupted the state's largest utility, left millions regularly without power, and brought home insurability into question. Florida is facing rapidly rising sea levels and

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now-routine flooding that are eroding coastal property values and wiping out freshwater supplies. Just this year, the Florida legislature was forced to substantially reform its own state-run property insurance corporation, <u>Citizens</u>, as more and more insurance <u>companies flee the state or deny</u> coverage to Floridians – though rates are still nearly three times the national average.

As stated by the thoughtful and comprehensive October 2021 Financial Stability Oversight Council (FSOC) Report on Climate-related Financial Risk, climate change poses an emerging and increasing threat to U.S. financial stability. Regional banks and smaller institutions in particular may experience higher rates of failure and closures due to lower diversification and geographical concentration. The financial risks climate change poses to community and regional banks are unique, as they are often not geographically diverse and don't have diversified business models.

These institutions already employ sophisticated risk management practices and should thus be capable of incorporating climate-related financial risks into their risk frameworks. Moreover, FDIC-insured depository institutions with \$50 billion or more in total assets are required to submit resolution plans due to the understanding that the failure of such institutions would have serious adverse effects on financial stability in the United States. While smaller banks may not be expected to comply with the same level of regulation, at least not at first, these institutions cannot afford to wait before they being measuring and managing their climate risk.

Ceres therefore recommends the Fed lower the asset threshold in the final Climate Principles to \$50 billion. We further recommend that these Principles be adopted by all U.S. banks irrespective of asset size. Over the next several years, the Fed should reduce the asset thresholds covered by these Principles from our recommended \$50 billion to \$10 billion, to all banks with assets below \$10 billion.<sup>2</sup> The Fed, OCC, and FDIC could implement a proportionate approach – based on size, complexity, risk profile, geographic distribution, business lines, and investment strategies – while providing support and resources, particularly to smaller financial institutions.

### 2. Provide explicit protection for financially vulnerable communities

Ceres supports the draft Principles' inclusion of language regarding financially vulnerable communities. Communities of color, low- and moderate-income (LMI) communities, socially vulnerable communities, and other financially vulnerable communities are disproportionately impacted by <u>climate events</u> and <u>climate-related financial risk</u>. There are also considerable disparities in energy cost burdens, with households below the poverty line dedicating a greater percentage of their income to energy-related costs compared to the average household. These same

Ceres Headquarters: 99 Chauncy Street, Boston, MA 02111

California Office: 369 Pine Street, Suite 620, San Francisco, CA 94104

<sup>&</sup>lt;sup>1</sup> See 12 C.F.R. § 360.10.

<sup>&</sup>lt;sup>2</sup> The New York Department of Financial Services (NY DFS) recently proposed climate risk guidance, which covers banking and mortgage organizations of all sizes, and takes a proportionate approach.

households also have inequal access to affordable green lending programs that would reduce energy cost burdens and increase resiliency. Vulnerable communities are also more likely to live in areas disproportionately impacted by climate change, and "are less likely to have the resources to protect and guard against" the impacts of climate events, creating an additional layer of financial burden. A recent report published by Ceres and the Wharton Risk Management and Decision Processes Center illustrates the inequities in the insurance industry, and provides recommendations for insurers and federal and state governments.

The draft Climate Principles asks board and management to "consider" the impacts of climate-related risk impacts on financially vulnerable communities when setting overall business strategy under *Strategic Planning*. Likewise, the Fed asks financial institutions to "consider" possible fair lending concerns of their climate risk mitigation measures under *Legal/Compliance Risk*. Ceres supports both of these positions. However, recommending financial institutions "consider" those impacts does not provide actionable guidance for financial institutions or help ensure financial stability in the communities they serve, and therefore financial stability more broadly. Instead, Ceres recommends the Climate Principles explicitly require financial institutions to consider and take action to reduce or limit these impacts.<sup>3</sup>

Including language to this effect also supports the recent interagency Community Reinvestment Act (CRA) notice of proposed rulemaking, under which Ceres submitted comments to support this important work. Ceres commends these agencies including activities that promote climate resiliency and disaster preparedness as activities that qualify under the CRA for community development purposes. The Fed should consider including, in the final Climate Principles and/or the final CRA rule, guidance on how financial institutions should assess the impacts of climate-related financial risk on LMI and other disadvantaged communities, and how to avoid inadvertently engaging in discriminatory practices.

Ceres further recommends the agencies develop CRA examination procedures to assess individual bank climate-related performance and to collect aggregate industry data on LMI individuals and communities. The Fed should also consider incorporating explicit provisions for climate resilience and race as interrelated stability risks which banks must address. This could include activities that support climate resiliency such as explicitly targeting LMI communities of color for investments in urban infrastructure to boost extreme weather resilience; investments in renewable energy and water conservation projects for affordable housing to reduce utility payments; investments in flood

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<sup>&</sup>lt;sup>3</sup> In its recent <u>proposed climate risk guidance</u> for banking and mortgage organizations, the NY DFS makes clear that financial institutions should "not base their risk management response to climate change on the concept or practice of disinvesting from low-income communities or communities of color or by making credit or banking more difficult or expensive for members of these communities to obtain."

<u>resilience</u> activities; and installation of air conditioning in multifamily buildings to reduce heat risks and utility payments.<sup>4</sup>

Likewise, the Fed should incorporate the insights and analysis produced by the Financial Literacy and Education Commission (FLEC) – of which the Fed is a member – into its expectations on how financial institutions consider climate-related financial risks on LMI and other disadvantaged communities. The Fed should actively and transparently engage with FLEC to assess the resilience of financially vulnerable populations and assign specific staff to work with FLEC on these issues.<sup>5</sup> Part of this work should include ensuring risk mitigation strategies don't disproportionately increase burdens on financially vulnerable communities (including disinvestment), and issuing guidance or best practices for financial institutions to this effect.

For financial institutions to credibly assess the impacts of climate-related financial risk mitigation strategies and financial products on households and communities, specifically LMI and other disadvantaged communities, Ceres recommends that financial institutions commit to principles of diversity, equity, and inclusion and that bank board members and senior management are selected from a diverse and inclusive pool of candidates drawn from the communities that the financial institutions serve. We encourage all bank board directors to participate in appropriate continuing education on these vital issues. We also encourage banks to build on their current efforts to include diverse voices into various levels of decision-making. It is important to have individuals representing different life experiences to advice on key financial decisions. Incorporating the principles of a just and inclusive economy is foundational to any effective climate risk management regime.

In sum, Ceres recommends the Fed explicitly require financial institutions to "consider and reduce" or "consider and limit" any adverse impacts of climate-related risk and risk mitigation measures on financially vulnerable communities. Bank examiners and enforcement officials should also be sufficiently trained to identify issues that may result in disparate treatment. In the long-term, the Fed, OCC, and FDIC should integrate such expectations into existing regulatory frameworks and issue guidance on procedures, practices, and capacity building. Training is vital

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<sup>&</sup>lt;sup>4</sup> Although these projects exemplify the beneficial objectives of climate change resilience financing, it is not intended as an exhaustive list of activities that banks should consider in addressing the impacts of climate-related financial risk mitigation strategies and financial products on LMI communities and communities of color.

<sup>&</sup>lt;sup>5</sup> Under FSOC recommendations 1.8 and 1.9, Treasury and FLEC members should "evaluate climate-related impacts and the impacts of proposed policy solutions on financially vulnerable populations when assessing the impact of climate change on the economy and the financial system," and "engage other members ... to analyze and understand the impact of climate change on the financial well-being of financially vulnerable populations."

for federally chartered banks as well as state regulatory agencies that utilize the same training resources for their state chartered banks.

### 3. Explicitly encourage transition plans

Ceres recommends that the Principles clearly state that having a transition plan is a crucial part of a financial institution's risk management system, and provide detailed guidance as to how these plans should be formed. This could be added under *Policies*, *Procedures*, and *Limits*, for example: "(iii) when feasible, the plan to decarbonize business activities and achieve net zero emissions by no later than 2050."

As part of identifying and quantifying climate-related financial risks, Ceres believes that large banks should establish and disclose <u>net zero transition plans</u> which describe in detail how they plan to decarbonize their business activities and achieve net zero emissions by no later than 2050. These plans should provide practical, actionable steps for banks to create an effective net zero transition, <u>including</u> assessment of assets that may be exposed to climate transition risk, internal valuation tools, and disclosure of risk assessments that identify climate-relevant sectors and the percentage of at-risk assets in these sectors. Large banks should also set detailed interim decarbonization goals (for example, 2030 or 2040 Paris-aligned goals) and provide a timeline with regular updates towards achieving them.<sup>6</sup> Several useful <u>models</u> already exist through the Net-Zero Banking Alliance, whose membership collectively represents 40% of global banking assets.

Furthermore, all interim goals and 2050 net zero commitments should incorporate the latest science, use credible climate scenarios, and disclose decarbonization progress on a sector-by-sector basis. Banks should engage clients on their own climate strategies by, for example, requiring clients to provide data in key climate-related areas, such as energy technology and emissions profiles; aggregating those data using methods such as carbon accounting; and building climate risk into day-to-day decision-making tools, such as client earnings models.

When making loans, financial institutions should request data from counterparties, including governance policies, physical and transition risks, and Scopes 1, 2, and 3 GHG emissions. The Fed should consider issuing guidance that provides standards for financial institutions to ascertain data on their GHG emissions to guarantee that disclosures among institutions are consistent, comparable, and reliable. We recommend that existing regulatory reporting requirements for banks be expanded to require the use of the TCFD framework to ensure that public disclosure of climate

Ceres Headquarters: 99 Chauncy Street, Boston, MA 02111

California Office: 369 Pine Street, Suite 620, San Francisco, CA 94104

<sup>&</sup>lt;sup>6</sup> For example, banks could validate their goals through the <u>Science Based Targets initiative</u> (SBTi), a methodology for banks to set targets that include financed emissions. Although aligning with this methodology will enhance comparability, banks should focus first on a goal that will incentivize action internally and reflect their risk management strategy to the greatest possible extent.

relevant information is comparable across banks of varying asset size, location, and business model. Obtaining this data will become easier when the <u>SEC's proposed climate disclosure rule</u> for public companies comes into effect, as it will allow all financial institutions to gain more comprehensive and consistent information from their clients.

Ceres also recommends that future guidance assist banks in factoring transition, physical, and reputational risks of their borrowers into their capital, loan pricing and credit allocation decisions. It is important that large banks do so on a sector-by-sector basis, with consideration given to the unique transition risks (including legal and reputational) and physical risks inherent in each industry sector and client vertical. We note that some large banks have already developed climate-related financial risk management practices in line with this guidance. For example, in <a href="December 2021">December 2021</a> Citi CEO Jane Fraser stated that Citi will start asking its clients to measure emissions and that a borrower's climate impact will factor into lending and capital allocation decisions. Citi's 2021 TCFD report addresses some of these issues.

Finally, Ceres recommends that future guidance for banks and bank holding companies involved in the trading and marketing of non-renewable commodities (including physical energy commodities and physical energy commodity derivatives) include a requirement to disclose the impact of climate-related risk drivers (including operational risk) around these products and services. Banks must develop the ability to assess whether climate-related transition and physical risks will cause certain assets (including trading book assets) to become so illiquid that they are effectively "stranded." Future guidance should assist banks in developing plans to unwind such assets, or set aside more capital against these potential "stranded assets."

### 4. Ordering of subsections

The Climate Principles require actions and commitment at the financial institutions' board level, both for governance and climate-related strategic planning, which aligns with international best practices. Ceres recommends having *Strategic Planning* directly follow *General Principles*, before listing the management's responsibilities to determine policies, procedures, and limits.

Both Governance and Strategic Planning are aimed at both the board and management, while Policies, Procedures, and Limits is aimed exclusively at management. Policies, Procedures, and Limits also directly refers to "the strategy and risk appetite set by the board." We therefore believe

Ceres Headquarters: 99 Chauncy Street, Boston, MA 02111

California Office: 369 Pine Street, Suite 620, San Francisco, CA 94104

<sup>&</sup>lt;sup>7</sup> See, e.g., Ceres letter to the SEC, Re: Shareholder Proposal to Valero Energy Corporation and Phillips 66 Regarding Asset Retirement Obligations in the Climate Transition (Feb. 3, 2023). Shareholders submitted proposals to oil and gas refiners Valero and Phillips 66, requesting that their boards issue audited reports describing the undiscounted expected value to settle asset retirement obligations (AROs) with indeterminate settlement dates. The information was requested to allow investors to more effectively comprehend potential liabilities from the energy transition.

it would be more straightforward and logical to define the responsibility for strategic planning first, keeping the targeted high-level decisionmakers together, before describing expectations of subsequent decisionmakers.

- B. Question 2: Are there areas where the draft principles should be more or less specific given the current data availability and understanding of climate-related financial risks? What other aspects of climate-related financial risk management, if any, should the Board consider?
  - 1. Data, metrics, and tools

Ceres has published three reports on climate-related financial risks for banks – one on <u>transition</u> <u>risk</u>, one on <u>physical risk</u>, and another on <u>risk from derivatives</u> activities. In these reports, we recommend that banks engage with their borrowing clients on a sector-by-sector basis to obtain climate-relevant data, with consideration given to the unique transition risks (including legal and reputational) and physical risks inherent to each industry sector. Banks should update or refine their decisions based on this data as they obtain new information. Specifically, we recommend that banks obtain the following data in support of effective climate risk management:

- Scope 1, 2, and 3 GHG emissions data from borrowers;
- Information on planned capital expenditures and their likely impact on company emissions, as well as transition plans (if available);
- Geolocational information of all critical borrower infrastructure; and
- Borrower climate disclosures prepared using the TCFD framework (banks should encourage borrowers to disclose this information using the TCFD framework to ensure that climate-relevant data is comparable across industries and geographies).

To minimize compliance costs, the Fed should also encourage and incentivize banks to actively contribute to the development and sharing of climate-relevant borrower data, as appropriate. Banks should collaborate with customers, peers, academics, and regulators to obtain and understand these data. The Fed should also encourage banks to use a common set of standards, such as the <a href="PCAF">PCAF</a> framework, for measuring their Scope 3 emissions associated with client activities. Without a standardized framework, it may be difficult to accurately assess banks' risk and the effectiveness of their mitigation strategies.

Ceres Headquarters: 99 Chauncy Street, Boston, MA 02111

California Office: 369 Pine Street, Suite 620, San Francisco, CA 94104

<sup>&</sup>lt;sup>8</sup> Investors are <u>increasingly requesting</u> companies' Scope 3 data, and the <u>SEC's proposed climate disclosure</u> <u>rule</u> includes Scope 3 disclosures. If the SEC includes Scope 3 in its final rule, this will decrease the burden on compliance with any future Fed rules, and the Fed could coordinate with the SEC on this issue.

Additionally, bank board members and senior management must have climate risk management competence, training, and experience. Financial institutions can take action on many climate-related financial issues despite uncertainty in other areas. For example, the <a href="New York Department of Financial Services">New York Department of Financial Services</a> notes that institutions "should establish board governance and an organization structure that supports the effective management of climate risks and develop their expertise and capacity to assess and manage climate risks on both sides of their balance sheets." Such actions could "be implemented with relative speed and confidence." To ensure that board members have access to climate and ESG training, Ceres offers an online training course for members of boards of directors that pinpoints how corporate board members can embed ESG into their oversight role.<sup>9</sup>

### 2. Climate scenario analysis priorities

The Fed's <u>climate scenario analysis pilot</u>, which is based on NGFS scenarios and will take place in 2023, is a good step forward, and follows in the wake of 31 other adopters of climate scenario analysis as of <u>2022</u>. We were also encouraged to see the inclusion of the insurance gap in the Fed's physical risk model. As discussed above, insurance coverage plays a large role in financial outcomes and in remedying some uncertainty.

However, the pilot is limited in scope. We understand that the pilot is intended to be a fact-finding mission to determine how financial institutions are currently dealing with and measuring climate risk, and discover where data and knowledge gaps exist. Still, Ceres recommends the Fed explicitly note the limitations of this exercise, and reiterate this message when the aggregated results are published this summer. With this in mind, we have 15 important recommendations that we think will improve future climate scenario analysis exercises, enabling participating financial institutions to more accurately measure the risks their firms face from climate change.

<sup>&</sup>lt;sup>9</sup> Ceres previously worked with Berkeley Law School, and will be announcing a new academic partnership for this course next month.

<sup>&</sup>lt;sup>10</sup> Australia, Brazil, Canada, China, Colombia, Denmark, Egypt, the European Central Bank, Finland, France, Georgia, Germany, Greece, Hong Kong, Hungary, Iceland, India, Indonesia, Italy, Japan, Korea, Malta, the Netherlands, Norway, Poland, Portugal, Singapore, South Africa, Spain, Switzerland, and the United Kingdom. A <u>report</u> released recently by the Financial Stability Board (FSB) and the Network for Greening the Financial System (NGFS) outlines findings from scenario analysis exercises completed or planned by 53 global institutions. The report flags that these exercises may be understating climate exposures and vulnerabilities.

### a. Build out more detailed scenarios

We recommend first and foremost that the Fed continue to act with a sense of urgency around this existential and systemic threat. The Fed should begin conducting these exercises quickly, for more than just the six largest U.S. financial institutions. Although initial models may be simplistic, as the 2023 pilot, the Fed should eventually provide more detailed scenarios. These should maintain alignment with current best practices (such as the NGFS and IEA scenarios) and with the most current climate science.<sup>11</sup>

### b. Expand to banks of all sizes

As climate risk permeates all aspects of capital markets and poses grave threats to financial institutions of all sizes and business models, we recommend that all U.S. financial institutions eventually implement climate scenario analyses, irrespective of asset size, location, or business model. For example, regional banks may experience higher rates of failure climate events and natural disasters that impact discrete geographic areas. Scenario analysis implementation could initially be tailored by bank size, with the threshold lowered overtime as more data becomes available to smaller banks, allowing those banks to build capacity. 12

### c. <u>Implement a longer time horizon</u>

The 2023 pilot exercise only takes place over a 10-year horizon, from 2023 to 2032. Ceres research from 2019 shows that <u>only one of nine banks studied</u> is looking at a risk management time horizon longer than five years. Two others are looking longer term with respect to climate risk, but not for more conventional risks like credit risk or market risk. While there may be some movement toward longer-term risk horizons in the last two years, most banks are still focused on the one- to five-year time horizon.

To fully understand the climate risks banks face to their safety and soundness, financial institutions need to look at a longer timeframe. In 2020, Ceres produced a report highlighting the <u>risks to the largest banks from transition</u> to a low- or zero-carbon economy. In 2021, Ceres prepared an <u>analysis of the physical risks</u> of climate change to banks. Both reports highlight the imperative to

Ceres Headquarters: 99 Chauncy Street, Boston, MA 02111

California Office: 369 Pine Street, Suite 620, San Francisco, CA 94104

<sup>&</sup>lt;sup>11</sup> Assumptions regarding both demand and prices for commodities (such as oil) should also be transparent and clearly stated.

<sup>&</sup>lt;sup>12</sup> For example, the <u>European Central Bank</u> conducted climate stress tests with all banks in the European Union that have assets of at least €30 billion. If the Fed applied the lessons learned from the ECB analysis and conducted climate stress tests with banks of the equivalent size in U.S. dollars, it would cover more than 60 banks.

study longer timeframes. We recommend a 20 or 25 year time horizon, as it would better reflect actual risk and provide a more comprehensive analysis for banks and their customers.

### d. <u>Include multi-risk scenarios</u>

Physical and transition risk are modeled separately in the 2023 pilot, which while allowing better identification of each risk, will not capture interactions between risks or compounding effects of multiple concurrent or consecutive events. Ceres believes this will capture only a portion of climate risk, therefore understating the risks to banks and the banking system, and recommends that the Fed include multi-hazard and multi-risk scenarios in future exercises as well as scenarios that consider the interaction between varying physical and transition scenarios.

### e. <u>Include disorderly transition scenarios</u>

Relatedly, future iterations of this exercise should include a scenario on delayed or disorderly transition. A delayed transition has the most risk associated, and NGFS has said it is the most likely scenario. Given that U.S. regulators and financial institutions are still in the early stages of integrating climate risk, there is a very low likelihood of an early and orderly transition to a net zero economy. One of the two scenarios chosen for the 2023 pilot, no transition, does not interact with what would include increased physical risks from taking no action to mitigate climate risks, and is therefore incomplete. As models progress, they should emphasize analyses that focus on late and disorderly transitions or no transition scenarios. These are scenarios in which the move to a net zero economy is slower or does not occur given the delay in the transition thus far.

### f. <u>Include indirect effects</u>

To capture climate risk posed to banks more comprehensively, the Fed should incorporate indirect effects. Ceres' 2020 report on banks' transition risk emphasizes the systemic nature of climate risk, illustrating how banks' first-round – or direct – losses will be significantly amplified by second-order effects due to the interconnectedness across financial sectors, including supply chain disruptions, productivity loss, and contagion channels. Incorporating impacts could shed light on critical financial stability concerns for these financial institutions and the underlying capital markets. The Fed should also assess the impacts to other assets outside of a bank's loans as part of the analysis. Our recent derivatives report shows that other assets like derivatives could amplify shocks within a financial institution.

### g. Broaden portfolios assessed

The 2023 pilot only tests effects on residential real estate and commercial real estate loan portfolios. This limited portfolio assessment will not capture the full extent of the multitude of risks banks face or the potential macroprudential contagion, particularly considering the focus on direct impacts (as opposed to requiring indirect impacts in addition). Ceres recommends the Fed

Ceres Headquarters: 99 Chauncy Street, Boston, MA 02111

California Office: 369 Pine Street, Suite 620, San Francisco, CA 94104

add additional sectors to the next round of scenario analysis – including agricultural, energy, and retail portfolios – as well as indirect impacts such as supply chain disruptions.

### h. Expand risks assessed

The 2023 pilot is similarly limited to credit risk impact, leaving out the impacts of climate on market, operational, and liquidity risk. This means the pilot results will capture only a portion of overall macroprudential risk from the selected climate events. Future climate scenario analysis exercises should expand upon the assed traditional risk categories.

### i. <u>Incorporate loss calculations</u>

Likewise, the 2023 pilot lacks a value at risk (VaR) calculation, which would quantify the extent of possible financial losses within a portfolio over the time of the scenarios. This, too, will result in only a partial understanding of the financial impact of the scenarios on the participating financial institutions, and will not allow the firms to determine cumulative risks from the pilot results overall. Future climate scenario analysis exercises should incorporate an expected loss calculation.

### j. <u>Incorporate client information</u>

Financial institutions should integrate firm-level information from client engagements in their analysis. This is critical as it would allow incorporation of more accurate client-level data instead of banks' assumptions of client risk. Many U.S. banks are already engaging their clients on climate issues. Central banks in other jurisdictions including the <u>Bank of England</u>, <u>Bank of Japan</u>, and the <u>Hong Kong Monetary Authority</u> have included this type of information in their respective climate scenario analyses.

### k. Include asset prices and average losses

Scenario analysis exercises should also include changes in asset prices and credit ratings as climate physical and transition risks evolve. Climate risk will impact asset prices and credit ratings, but there is substantial evidence that the market has not yet priced in climate risk. Likewise, exercises should include average losses on loans by sector and geographic region in the results of the analysis and share those publicly. This will aid other financial institutions as they assess their own risks, particularly regional and community banks that have concentrations in certain geographic regions and sectors of the economy.

### 1. Provide guidance on transition risks and materiality assessments

The 2023 pilot instructs financial institutions to use their own measurement practices and methodologies for transition risks. This means methods will vary amongst the banks, and may not be accurate or comparable. Ceres recommends the Fed consider providing more structure for how

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to determine what transition risks banks will face based on bank size or portfolios. This could include more qualitative, instructive questions like those included in other central bank climate exercises.

Additionally, the Fed should provide clear guidance on the minimum requirements to conduct a materiality assessment. In conducting these assessments, financial institutions should be required to report their results, including what data was used in the assessment to allow comparability across sectors, and an explanation of why information was determined material or not. Banks should also focus their assessments on financial opportunities as well as financial risks. Information banks should consider in making materiality assessment include context-specific metrics such as asset locations, local laws, and geographical information. Determination of whether such climate-related financial risks are material should mirror those determinations made in other risks assessments by a given financial institution.

### m. Provide educational resources

The Fed must ensure that banks have access to educational resources in support of bank innovation regarding climate scenarios, models, and data. Educational and training resources will also help smaller banks in building out their own climate risk measurement and mitigation processes.

This could include utilizing data from other organizations and agencies in their climate analysis, as well as lessons and data gaps learned from initial Fed scenario analysis exercises. For example, using data on climate risk and disasters from Federal Emergency Management Agency or the Federal Insurance Office could prove insightful, like approaches taken by the <a href="Bank of Finland">Bank of Finland</a> and <a href="Hong Kong Monetary Authority">Hong Kong Monetary Authority</a>.

### n. Implement capital consequences

Importantly, we believe that climate scenario analysis exercises should eventually evolve into a formalized climate stress testing regime which informs regulatory capital adequacy metrics, aligned with the approach that the ECB has taken. It is possible the Fed pilot, like the ECB's, will unveil risks to the financial system. If so, it will be important for the Fed to take appropriate steps to address and mitigate the risks.

In our <u>Transition Risk</u> and <u>Physical Risk</u> reports, we recommend that the existing capital adequacy regime be expanded to include climate stress testing with eventual adjustments to both bank liquidity and capital requirements. In 2021, Ceres also provided <u>testimony to the United States House of Representatives</u> on the importance of climate stress tests as part of an effective bank capital adequacy regime.

The Fed should review financial institutions' models to ensure they are suitably robust, and that financial institutions are not "model shopping" to avoid poor outcomes. Without climate stress

Ceres Headquarters: 99 Chauncy Street, Boston, MA 02111

California Office: 369 Pine Street, Suite 620, San Francisco, CA 94104

testing (including a comprehensive capital adequacy regime), we believe that financial institutions are at risk of running a higher quantum of enterprise risk than they are aware of, posing a danger to the safety and soundness of our financial system.

### o. Share key data to ensure public confidence

Finally, Ceres believes it is important to build in a process to share key results with the public. Bank investors, customers, staff, and other stakeholders want to better understand these risks. For example, bank shareholder resolutions are increasing (with roughly two dozen this year alone among the largest banks), and in a 2022 JUST Capital poll, 87% of Americans indicated they wanted more information on climate risks for large companies. Finding an appropriate way to share key data with stakeholders is vital to ensuring public confidence. There is growing concern about the safety and soundness of banks' long term financial decisions, and transparency and public access would go a long way to addressing these questions.

Again, we thank the Fed for taking the important step of launching a pilot climate scenario analysis, and hope that the agency will make clear the limitations of the 2023 pilot while highlighting the importance of this exploratory exercise in identifying data gaps. Including the results of this exercise in the Fed's broader supervisory review of each financial institution will assist not only future scenario analysis by U.S. firms, but assist smaller financial institutions in building out their own climate risk management frameworks.

### 3. Future guidance to assist financial institutions' development of climaterelated financial risk practices

The Fed has designed these Principles to target the largest financial institutions, although it acknowledges that "all financial institutions, regardless of size, may have material exposures to climate-related financial risks." In general, Ceres recommends that, as financial institutions and the Fed become more adept at incorporating climate-related financial risk management practices, the Fed lower this threshold to include more than the largest banks over time as these standards evolve. However, we acknowledge that smaller banks, community banks, and credit unions have different capabilities than the largest banks. The Fed should therefore tailor its approach to accommodate for those size, complexity, risk profile, and scope of operations differences.

### a. Work with FFIEC

To this end, Ceres suggests the Fed implement an assessment program similar to the Federal Financial Institutions Examination Council's (FFIEC) <u>Cybersecurity Assessment Tool (CAT)</u>, which was launched to assist banks and examiners determine a bank's risk profile and level of

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cybersecurity preparedness.<sup>13</sup> The Fed, working with the OCC and FDIC, should develop a similar assessment tool for climate-related financial risk, providing resources to help banks understand supervisory expectations, how climate risks relate to traditional financial risks, and assess and manage those risks. Like the CAT, this could include a pilot program at smaller institutions to enable state and federal regulators to assess how these institutions manage and mitigate climate risks. Based on this program, the Fed should publish its observations, including findings regarding inherent climate-related financial risks and institution preparedness.

Moreover, Ceres recommends that the Fed consider using the data it collects from this program to develop a self-assessment tool to assist smaller institutions in evaluating those risks and their risk management capabilities. To reflect evolving science and scenario analysis with a focus on risk management, collaboration, and resilience, the Fed should continue to update and publish new data it and the other financial regulators obtain and/or analyze. This would allow the Fed to tailor its guidance for smaller institutions, and enable those institutions to develop climate-related risk management practices without presenting an undue burden.

The Fed should further work through FFIEC to issue guidance to industry to raise awareness of the risks, encourage financial institutions to integrate climate risks into their enterprise risk frameworks, and provide guidance on how to measure and mitigate risks, including through best practices. Likewise, the Fed should issue Supervision and Regulation Letters on climate risk to regulated banks and bank holding companies to acknowledge that climate poses risks to the financial system and individual financial institutions and that it is part of the Fed's supervisory expectations, as well as to provide financial institutions guidance on how to identify and monitor climate-related risks.

Additionally, Ceres recommends that the Fed works with FFIEC to amend the Call Report to include information relevant to financial institutions' climate-related financial risks. Likewise, the Fed should work with FFIEC to amend the Uniform Bank Performance Report (UBPR) to create standardized measurements of climate risk at individual institutions as well as risks among peer groups and in the aggregate. The UBPR is an invaluable tool for examiners to assess a bank's financial condition and risks and to compare an institution with its peers. As a publicly accessible report, it is also widely used by industry to conduct a peer analysis.

### b. Update examination manuals

Similarly, Ceres encourages the Fed to update its examination manuals to account for climaterelated financial risks, and/or issue an examination manual dedicated to the identification and management of climate risks based on established risk factors that are very familiar to financial

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<sup>&</sup>lt;sup>13</sup> See Attachment 1, Appendix A.

institutions and examiners. While in the process of amending or issuing a new manual, the Fed could start by issuing a new booklet, publishing a policy statement, or addressing the topic in the periodically published Beige Book or Federal Reserve Bulletin. Likewise, the Fed should continue to include climate risk as a risk that may affect financial institutions in its annual Financial Stability Report and Supervision and Regulation Report. These updates, as well as the Fed's interactions with examiners, should be based on financial institution size and business line.

Likewise, the Fed should work with the OCC and FDIC to train its examiners. Examiners should understand how climate risk fits within existing risk frameworks to ensure competence, as well as serving as an additional educational resource to banks. NGFS is currently developing such training materials. This should also include CRA examiner training on the related and new community development definition, climate resiliency. As noted earlier, training examiners and updating training manuals would also be helpful for state regulatory agencies that use the same tools for their state chartered banks.

### c. <u>Integrate climate risk into CAMELS</u>

Additionally, the Fed should provide guidance as to how climate-related financial risks relate to the CAMELS framework. Climate risk could be treated as a cross-cutting risk that manifests through these well-recognized and established types of risk. Capital and asset quality could be significantly affected by both transition and physical risks, particularly where an institution has geographical or sector concentrations vulnerable to these risks. Management's ability to adequately assess, plan for, and mitigate these risks, including through access to appropriate and timely data to measure the bank's exposure, could be factored into the management component. Earnings and liquidity may also be implicated where a bank has made significant amounts of loans to sectors that are heavily reliant on fossil fuels and the bank (and its customers) has failed to adequately plan for transition or the bank's loans are supported by collateral increasingly at risk from severe weather events and rising sea levels.

Current approaches to climate risk modelling by large banks treat climate risk in a manner analogous to credit risk. Climate risk is quantified using sophisticated models, and capital or risk limits are adjusted to account for this risk. For banks without these capabilities, or where the cost of implementation would be prohibitive, we suggest that future Fed guidance treat climate risk in a more prescriptive manner similar to the OCC and FDIC's operational risk guidance on cybersecurity. This approach could involve requiring in-scope banks to assess underwriting of climate-sensitive industries, and in some cases recommending the complete withdrawal of lending activity from high GHG-emitting sectors where the assessed risk threatens a bank's safety and soundness.

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### d. Regulations prescribing risk management practices

Although the Fed's current consultation seeks to promote a principles-based approach to improving risk management and supervisory practices related to climate-driven financial risk, Ceres encourages the Fed to consider making many or all of these prescriptive and enforcing them as mandatory requirements as opposed to voluntary best practices.

After the current Principles are finalized, the Fed should continue to create more in-depth requirements. The Fed should use its authority under Section 39 of the Federal Deposit Insurance Act, specifically 12 U.S.C. § 1831p-1 and its own Interagency Guidelines Establishing Standards for Safety and Soundness, <sup>14</sup> to codify future guidance under these safety and soundness supervisory guidelines. Such binding regulations would be beneficial as they would assist financial institutions in understanding what the Fed and examiners are looking for. It would also make clear that climate-related risks are a safety and soundness concern, and would give the Fed a legal basis for requiring banks to make necessary changes and bring enforcement actions for noncompliance.

It is important to note that the European Central Bank, the Bank of England, and other foreign financial regulatory agencies are already taking these steps. <sup>15</sup> The Fed should make use of the data these prudential authorities and their regulated entities have already collected and analyzed, including scenario analyses and stress tests.

# C. Question 3: What challenges, if any, could financial institutions face in incorporating these draft principles into their risk management frameworks?

Ceres maintains an active and regular dialogue with U.S. banks of varying asset size, location, and business model, and most of the U.S.-based G-SIBs are members of Ceres' Company Network. Based on our interactions, the main challenges they face in incorporating these principles into their risk management systems are technical in nature.

For example, even with considerable client engagement, they face difficulty in obtaining borrower-specific climate data (for example, GHG emissions), and are therefore reliant on third-party data to provide index information. In some cases, they are unsure of which climate scenarios are most relevant for their business model, or the most relevant scenarios do not provide sufficient detail in some areas critical to financial institutions.

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California Office: 369 Pine Street, Suite 620, San Francisco, CA 94104

<sup>&</sup>lt;sup>14</sup> 12 C.F.R. Appendix D-1 to Part 208.

<sup>&</sup>lt;sup>15</sup> Over 50 central banks and other foreign regulatory bodies are beginning to regulate climate-related financial risk and/or plan mandatory scenario analyses, including: <u>Australia</u>, <u>the Basel Committee on Banking Supervision</u>, <u>Brazil</u>, <u>Canada</u>, <u>China</u>, <u>England</u>, <u>the European Central Bank</u>, <u>France</u>, <u>Hong Kong</u>, <u>Japan</u>, <u>Malaysia</u>, <u>the Netherlands</u>, and <u>Singapore</u>.

Many financial institutions have identified specific tools and/or strategies in at least some detail in their general reporting, integrating climate risk into existing risk types and systems rather than treating it as a separate risk. When banks are unable to quantify risks, they have reverted to describing the risks in qualitative terms, which we would consider a minimum threshold for climate risk management. Based on Ceres' interactions, many of the largest financial institutions have used, or have considered using, both insurance and carbon offsets to mitigate climate-related financial risks.

### 1. Insurance contracts as a risk mitigation strategy

Ceres believes that residential mortgage divisions of large banks are directly exposed to the risk of insurance price increases or coverage withdrawal. There are significant <u>risks in the insurance</u> industry as noted in this <u>recent analysis</u>, and the most recent <u>NOAA data</u> shows that the U.S. has experienced 18 separate billion dollar weather and climate disasters in 2022 that together cost at least \$165 billion. Specifically, with the recent increase in acute climate-related physical risk comes the specter of home insurance price increases and denial of coverage.

For example, <u>AIG recently announced</u> plans to leave the California market due to climate risks. As discussed above, Florida is struggling to keep premiums in check and <u>prevent insurers from leaving the state</u>, passing sweeping reforms to its state-run insurance provider in an attempt to remedy the issue. Louisiana is facing the same problems, and its legislature will likely hold a <u>special session on insurance</u> in February to address rising costs and departing insurers. Moreover, low-income individuals and people of color are disproportionately harmed by disasters, and "climate-related disaster risk is correlated in many places with income and race, <u>creating differential impacts in pricing</u>." <sup>16</sup>

Ceres believes that the bank market's reliance on the availability of home insurance for its residential mortgage portfolio could lead to a climate-related gap in risk monitoring. As such, we recommend that banks study the potential impact of residential property insurance price increases or coverage withdrawal on the value, default rate, loss given default, and financing cost of residential mortgage portfolio holdings. This includes consideration of the risks of uninsured or underinsured properties that lie outside of a flood zone when underwriting a mortgage. The Fed

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<sup>&</sup>lt;sup>16</sup> Further, "[m]any households have insufficient savings, lower access to credit, and cannot rely on disaster aid that is slow to disperse and insufficient for recovery. Without the funds to cover disaster costs, households may have to divert funds away from critical spending, such as healthcare, or turn to predatory lenders. They can exhaust any savings for retirement, medical needs, or education, leaving them more financially precarious." Despite public recovery funding, natural disasters lead to declines in credit scores, negatively impact mortgage performance, and increase debt over time, often disproportionately impacting financially vulnerable communities – such as low-income communities and communities of color – who are already at increased financial risk, widening already existing inequalities.

should consider developing tools to facilitate compliance with the National Flood Insurance Program and encourage financial institutions to move beyond compliance to recognize that there are substantial future flood risks for properties that do not lie in flood zones.

Similarly, banks use insurance and derivatives to hedge climate-related risks at the loan and portfolio level, but this does not eliminate the systemic risk, as that risk is assumed by the firm to which the risk is transferred. With hedging also comes systemic risk concerns, especially where one firm is providing most of the climate risk protection. We recommend the Fed discuss these risks in its next Risk Review and/or Supervisory Insights. There is also similar risk in other portions of banks portfolios.

### 2. Carbon trading as a risk mitigation strategy

Ceres recommends that the primary focus of banks be on "absolute GHG reductions" through client engagement as opposed to "net GHG reductions" via financial engineering. As such, GHG offset strategies should be used sparingly and only as a last resort. Last year, Ceres produced a report on carbon credits to help financial institutions understand best practices when using carbon credits as a risk mitigation tool.

Outside of insurance and offsets, financial institution relationships with their clients must be at the heart of any strategy for climate risk mitigation. Arguments that large financial institutions "bank the entire economy" and as a result have no pathway to reduce their climate risk miss the critical role of client engagement and transition. Business within a sector can gradually be shifted towards companies with a higher share of sustainable assets and/or robust transition plans. The recently released 2030 plans from a few of the largest banks take initial steps with some of their client sectors. While additional actions are needed, these are good initial steps.

For example, if a bank weighted its exposure to the utility sector heavily toward renewables and its exposure to the auto sector toward electric vehicles, some transition risk could be offset by the de-risking of green investments that would occur in a rapid transition scenario. Our analysis also shows the extent to which a bank's vulnerability to transition risk is extremely sensitive to the choice of clients in climate-relevant sectors. The availability of "investable opportunities" is an important factor in how easy it is to mitigate risk through sustainable finance. The current structure of the economy will mean that most banks, particularly the largest ones, will have a "long" exposure to the business-as-usual case and a "short" exposure to the transition scenario. However, proactive banks may be able to capture enough sustainable opportunities to adjust this balance in a way that manages their overall transition risk.

Based on our interactions, many of the largest banks currently offer their borrowers a variety of "green" products, such as sustainability-linked loans and derivatives with embedded sustainability KPIs. While we encourage banks to support their client's climate risk management and

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California Office: 369 Pine Street, Suite 620, San Francisco, CA 94104

sustainability efforts, banks should pay attention to the potential unique reputational risks these products entail, such as the risk of "greenwashing" by the bank and/or the borrower. Greenwashing is the process of knowingly or unknowingly conveying a false impression as to how sustainable or environmentally sound a product or service actually is. It can occur when the benefits conferred by the product or service are not material to the bank or borrower, or relevant to the borrower's primary business activity. Such practices may also be considered "deceptive" under Section 5 of the Federal Trade Commission Act, which is enforced by the Fed for state nonmember institutions.

### 3. Climate scenario analysis

Based on our interactions with U.S. banks, it is clear that the uses and challenges banks face regarding climate risk management varies greatly by size. Many of the largest banks currently use some form of climate-risk scenario analysis and/or climate-risk stress testing to evaluate the transition and physical risks associated with their lending portfolios. The main challenges they face in advancing their climate scenario analysis and stress testing programs are technical in nature:

- Even with considerable client engagement, they face difficulty in obtaining borrower-specific climate data (for example, GHG emissions).
- In general, larger, publicly-listed borrowers are more likely to provide banks with climate data, whereas small to mid-size and privately-owned borrowers are less willing or able to generate this information.
- In some cases, large banks are unsure of which climate scenarios are most relevant for their business model or the most relevant scenarios do not provide sufficient detail in some areas critical to financial institutions.

In contrast, the use of climate-risk scenario analysis and/or climate-risk stress testing for regional and community banks can be characterized as being in its infancy. Moreover, the main challenges they face in advancing their climate scenario analysis and stress testing programs are both technical and operational in nature:

- Some regional and community banks do not yet consider climate to be a material risk factor, and so are not engaging their borrowers in obtaining climate-relevant data.
- When client engagement does occur, borrowers are unable or unwilling to provide climate data (for example, GHG emissions).
- In some cases, regional and community banks are unsure of which climate scenarios are most relevant for their business model.
- Often, banks wait for regulatory guidance before investing resources in the design of climate-risk scenario analysis and/or climate-risk stress capabilities.

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When designing and executing scenario analysis, at a micro-level, we believe that the scientific rigor and transparency of the scenarios are paramount. As such, financial institutions should ensure that their scenarios:

- Are science-based and aligned with the most current climate science;
- For transition risk, the scenarios should consider both an "orderly" and "disorderly" transition:
- For physical risk, the scenarios should contain at least one "worst case" scenario;
- Includes second-order impacts such as supply chain disruptions, productivity loss, and contagion channels;
- Have transparent and clearly stated assumptions regarding both demand and prices for commodities (such as oil); and
- Are aligned with current best practices (i.e., IEA and NGFS scenarios).

To ease compliance burdens on financial institutions of all sizes, Ceres hopes the Fed will incorporate the scenario analysis recommendations made above in Section II.B.2 into its supervision, while ensuring consistency and access to support.

### III. CONCLUSION

We thank the Federal Reserve for their work on these Climate Principles, and the Fed's leadership on this critical issue is deeply valued. This proposal reflects an enormous amount of work by the Board and its staff, and we commend this effort and recognize the hard work from many across the Federal Reserve System. As discussed above, we also believe there are areas for improvement, and we would be pleased to discuss any questions you may have on our feedback. Please contact Kelsey Condon (kcondon@ceres.org) at your convenience. Thank you for your consideration.

Sincerely,

Kelsey Condon

Manager, Banking Financial Regulation

Ceres Accelerator

Amy Kvien

Manager, Financial Institutions

Ceres Accelerator

Ceres Headquarters: 99 Chauncy Street, Boston, MA 02111

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Jim Scott, CFA Senior Advisor, Financial Institutions Ceres Accelerator 8Abh M. R. Histeln

Steven M. Rothstein Managing Director Ceres Accelerator

Ceres Headquarters: 99 Chauncy Street, Boston, MA 02111 California Office: 369 Pine Street, Suite 620, San Francisco, CA 94104

### **Attachment 1**

#### **MEMORANDUM**

To: Board of Governors of the Federal Reserve System

From: Ceres Accelerator for Sustainable Capital Markets

Re: Recommendations for FRB Action to Address Climate-Related Financial Risks

Date: December 21, 2021

# 1. Recommendations for FRB Action to Address Climate-related Financial Risks

1. The FRB should take further immediate or ongoing actions

We commend the Federal Reserve System (the Fed or FRB) for including climate change as an area of emerging microprudential risk in its November 2020 Supervision and Regulation Report and November 2020 Financial Stability Report, describing its actions to identify and address climate-related financial risks in its November 2021 Financial Stability Report, and establishing the Supervision Climate Committee (SCC) and the Financial Stability Climate Committee (FSCC). Building upon these actions, the Fed should do the following:

- Include an update on the work of the SCC in each Supervision and Regulation Report and highlight climate as a microprudential risk affecting individual financial institutions.
- Include an update on the work of the FSCC in each Financial Stability Report. Climate is a systemic risk to the financial system and progress of the FRB in identifying and addressing such risks should be a part of every report.
- Issue a Request for Information (RFI) on available data, models, or other information that could be used, in addition to existing data, to inform the FRB on climate-related risks to the financial system and the economy. In particular, the FRB should solicit data points on the adverse effects of climate on low- and moderate-income communities.
- Issue a separate RFI to seek input on scenario analysis tools used by financial institutions or other industries to measure risks associated with climate change. Once it has learned from industry and agency climate scenario analysis, the FRB should consider how to integrate climate risk into its stress-testing framework.

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### 2. The FRB should issue SR Letters to regulated banks and bank holding companies on climate risk

The FRB should use Supervision and Regulation (SR) Letters to first acknowledge that climate poses risks to both the financial system and to individual financial institutions and then to provide guidance to FIs on how to identify and monitor climate-related risks.

### 3. The FRB should conduct a horizontal review of the largest bank holding companies

Ceres recommends that the FRB conduct a horizontal review for all holding companies subject to Large Institution Supervision Coordinating Committee (LISCC) Supervisory Program review to gain a baseline understanding of climate risk identification and management among these large organizations. The FRB may want to coordinate such a horizontal review with the chartering or supervisory agencies for the subsidiary banks, including the Office of the Comptroller of the Currency (OCC), Federal Deposit Insurance Corporation (FDIC), New York Department of Financial Services (Bank of NY/Mellon and Goldman Sachs), and the Massachusetts Division of Banks (State Street).

### 4. The Reserve Banks should conduct further research on climate-related risks and impacts in their districts

We recognize the excellent research many of the Reserve Banks have conducted on topics from the impacts of climate on the economy, to risks to financial stability, to how to approach stress testing for climate risks, as well as the conferences several Reserve Banks have held to share and discuss climate risk to the financial system and climate risk research. The FRB should encourage all Reserve Banks to conduct additional research on climate-related risks in their districts. Analysis of the regional impacts of climate can also inform states as they work individually and collectively to address climate, particularly in low- and moderate-income and other vulnerable populations.

## 2. Interagency Recommendations

## A. Interagency Case Studies and Recommendations

Short-term actions by each of the Financial Stability Oversight Council (FSOC) members individually is critical to address the risks to the financial system from climate change. While individual agency actions are important, collective action can sometimes send a more powerful and consistent message to the financial services industry. The benefits from the government acting on a joint or Interagency basis are clear. Such joint actions avoid conflicting or duplicative messages which create burden for industry and they can result in a more efficient allocation of resources by the agencies.

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### **B.Interagency Case Studies**

The agencies have demonstrated in the past that they can work quickly when they believe an emerging risk is significant and imminent. Appendix A details two case studies of timely responses to identified threats to the financial system. In the first example the agencies acted together over the course of four years to address the concern that the effect of the year 2000 date change on computer systems could have severe, far-reaching consequences for financial institutions. During the course of the four years, the agencies issued more than 20 interagency policy statements on multiple related topics, trained and deployed examiners who conducted multiple examinations at each institution, developed and disseminated educational content and conducted outreach, tracked and monitored progress, took action to address deficiencies and engaged in contingency planning.

The second example involves the agencies' collective action to address increasing cybersecurity risks. In roughly a year from identifying cybersecurity as a top priority for the Federal Financial Institutions Examination Council (FFIEC), the agencies had developed a risk assessment tool. The FFIEC quickly launched a dedicated page on cybersecurity for financial institutions and examiners, piloted a program at over 500 community institutions to assess management of cyber risks, published general observations from the pilot, outlined its cybersecurity priorities for the remainder of the year, and released a Cybersecurity Assessment Tool (CAT). The agencies have since taken additional actions, but their collective efforts to highlight the importance of the issue, understand its implications for the regulated institutions, and give the industry a self-assessment tool, as well as a tool for examiners, in such a short period of time is instructive.

These examples are evidence of constructive, timely, coordinated and effective actions agencies have taken collectively to address emerging issues. These examples provide a roadmap for interagency statements, guidance, outreach, training, examination, and accountability that could all be deployed in addressing climate risks.

## C. Recommended Interagency Actions

### 1. <u>Conduct a Climate Risk Policy "Sprint"</u>

Regulators have begun to embrace the idea of a "Tech Sprint." A Tech Sprint is a short, time-bound initiative to develop innovative and creative solutions to a specific problem in a collaborative way. Pioneered by the Financial Conduct Authority (FCA), the concept has been adopted by both the FDIC and the Consumer Financial Protection Bureau (CFPB) to solve challenging issues that transcend the capacity of one agency or organization to tackle. More recently, the FDIC, FRB, and OCC announced that they are working on a Digital Assets Sprint Initiative (also called the Crypto Sprint) and just issued their first interagency statement based on the sprint.

The purpose of the initiative is to increase collaboration and clarity around digital assets and involves a series of four sprints to address in a timely manner the many issues raised by cryptocurrencies. As stated by Acting Comptroller Hsu in his August 3, 2021 testimony before the Senate Banking Committee:

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California Office: 369 Pine Street, Suite 620, San Francisco, CA 94104

The first sprint focuses on developing a common taxonomy for digital assets and agreed upon definitions to ensure a common language and understanding of the basic terms and concepts for future discussions. The second sprint centers on understanding use cases and risks associated with cryptocurrencies and digital assets. The third sprint concentrates on potential gaps in regulation and supervision and prioritizing those gaps for additional consideration. The fourth sprint will consider the policy needs based on the work conducted during the previous sprints.

The FFIEC members should immediately create a Climate Risk Sprint initiative. This recommendation is consistent with FSOC Recommendation 2.1 (Fill data gaps) and Recommendation 2.5 (Data metrics and standardization). Using the Digital Asset Sprint Initiative as a model, the agencies should conduct rapid sprints to first develop a common set of definitions to inform discussions and then review current and evolving risks to financial institutions. The agencies should conclude by collaborating in conducting sprints to evaluate the regulatory and policy gaps in supervision.

Additionally, the FFIEC members could consider a TechSprint that involves the participation of outside experts – industry representatives, scientists, data specialists – to collaborate side-by-side with government officials to address potential data and technology solutions to assessing and managing climate risks. Such a collaboration facilitates new and beneficial connections and networks and focuses great energy and creativity to problem solving in a compressed time period. This type of TechSprint has been used repeatedly by the FCA and has also been adopted by the FDIC and CFPB.

### 2. <u>Establish FFIEC Working Group</u>

As noted in the above case study on cybersecurity, the FFIEC was able to act with relative speed to address the rising cybersecurity risks to the financial system when it announced the creation of the Cybersecurity and Critical Infrastructure Working Group (CCIWG). The CCIWG was formed in 2013 "to enhance communication among the FFIEC member agencies and build on existing efforts to strengthen the activities of other interagency and private sector groups" and quickly rolled out a series of announcements resulting in the release of the first version of the CAT in 2015.

Similarly, the FFIEC should announce the creation of the Climate Risk Working Group, reporting to the Council through the Task Force on Supervision (TFOS). The purpose of the Climate Risk Working group would be similar to the CCIWG (i.e. enhance communication among members, and build on existing efforts by other agencies and private sector groups). The FFIEC can use the Climate Risk Working Group to develop a means to begin to assess and enhance the state of industry preparedness. Finally, the Working Group can identify gaps in the agencies' examination procedures and training that can be closed to strengthen the oversight of climate risk readiness.

The regulators could also consider establishing a body, such as the UK Climate Financial Risk Forum (CFRF), composed of industry representatives and convened several times a year by the regulatory agencies. The CFRF has published a couple of best practices guides to assist financial institutions in identifying climate-related financial risks and opportunities. The latest guide is focused on risk management, scenario analysis, disclosure, innovation and climate data and metrics.

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### 3. <u>Issue Guidance through the FFIEC</u>

Using the CCIWG as a model, the FFIEC should issue Guidance to the industry to raise awareness of the risks, encourage financial institutions to integrate climate risks into their enterprise risk frameworks, and provide guidance on how to measure and mitigate risks, including through best practices. Guidance can be sequenced to first provide a declaratory statement that climate is a risk to both the financial system and to individual institutions. Subsequent Guidance can address first physical risks and then transition risks associated with climate change. Such actions can help fulfill FSOC Recommendations 4.7 and 4.8 (Review of supervisory and regulatory tools). Agencies can also help raise awareness by highlighting relevant events or milestones (see proposed Climate Risk Awareness Month below).

### 4. <u>Develop a "Resources" section for climate risk on the FFIEC web page</u>

The FFIEC should develop a page on its website to list resources related to climate risk to the financial services industry. First, it can list all Guidance from the FFIEC or from the member agencies. The site could also link to other federal resources or agencies that offer helpful information. Given the increasing frequency of natural disasters, the agencies may want to create a section to consolidate interagency statements on regulatory relief for natural disasters. The agencies should also amend the <a href="Interagency Supervisory Examiner Guidance for Institutions">Interagency Supervisory Examiner Guidance for Institutions</a>
Affected by a Major Disaster, adopted in 2017, which makes no mention of climate change. The Guidance should be amended to cite the risks associated with climate change and note that in many cases, natural disasters are no longer "exceptional."

## 5. <u>Create a Flood Insurance Resource Page and Update Flood Insurance Guidance</u>

Pursuant to 12 U.S.C. § 3305(g), the FFIEC is required to consult with the agencies responsible for supervising for compliance with the National Flood Insurance Program (FDIC, FRB, National Credit Union Administration (NCUA), and OCC as well as the Farm Credit Administration) and develop uniform standards for use by financial institutions. While the Task Force on Consumer Compliance (TFCC) has had working groups to develop flood insurance compliance examination procedures for the agencies as well as Interagency Questions and Answers Regarding Flood Insurance, no information on the National Flood Insurance Program (NFIP) is available on the FFIEC website. The FFIEC should take the following actions to both facilitate compliance with the NFIP by financial institutions as well as reduce the risks to financial institutions from uninsured and underinsured properties:

- Create a section on the FFIEC website devoted to flood insurance with information on the NFIP from the agencies or from the Federal Emergency Management Agency (FEMA).
- Issue updated guidance on flood insurance that incorporates risks from climate change.
- Develop tools to facilitate compliance by financial institutions with the NFIP.
- Given that the flood insurance maps are out of date and do not reflect current risks, the agencies should encourage financial institutions to move beyond compliance with the Flood Disaster Protection Act and recognize that there are substantial flood

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California Office: 369 Pine Street, Suite 620, San Francisco, CA 94104

risks for properties that do not lie within a flood zone. Financial Institutions should therefore consider the safety and soundness risks for uninsured or underinsured properties that lie outside of a flood zone when underwriting a mortgage.

### 6. <u>Amend the Call Report</u>

Under the auspices of the Task Force on Reports (TFOR), the FFIEC should amend the Call Report to collect information on institutions' climate-related financial risks, consistent with the FSOC Recommendations 3.1, 3.2, 3.3, and 3.7 (Enhancing Public Climate-related Disclosures), using data terms defined by the Climate Risk Sprint (see above). The NCUA, as a member of the TFOR should also incorporate such changes into its call report for credit unions. As noted in FSOC Recommendation 3.7, such information collection should consider an institution's size, complexity, and activities.

### 7. <u>Amend the UBPR</u>

The Uniform Bank Performance Report (UBPR) is an invaluable tool for examiners to assess a bank's financial condition and risks and to compare an institution with its peers. The UBPR, as a publicly accessible report, is also widely used by industry to conduct a peer analysis. The data from the UBPR comes directly from the Call Report. Following any amendments to the Call Report, the Task Force on Surveillance Systems (TFSS) should create standardized measurements of climate risk in the UBPR. Such metrics should be able to identify risks at individual institutions as well as risks among peer groups and in the aggregate. This recommendation is consistent with FSOC recommendations 2.5 (Data metrics and standardization) and 3.3 (Enhancing Public Climate-related Disclosures).

### 8. <u>Host a webinar(s) for industry on risks associated with climate</u>

Over the years, the FFIEC and its member agencies have held numerous <u>webinars</u> and conferences for industry on various risk topics, including cybersecurity, Bank Secrecy Act/ Anti-money Laundering (BSA/AML) and the LIBOR transition. The FFIEC should host one or more webinars for banks and credit unions on the risks of climate to financial institutions of all sizes and the need to measure and mitigate climate risks.

### 9. <u>Develop a Climate Risk Assessment Tool</u>

Following the creation of the CCIWG, the FFIEC released the first version of the CAT. The CAT was a unique development by the agencies; rather than releasing a regulation or regulatory guidance and expecting institutions to comply on their own, the FFIEC developed a tool to help financial institutions to understand and assess their cybersecurity risk and preparedness. This was particularly helpful to smaller financial institutions that lack the resources to conduct such an analysis internally.

Similarly, the FFIEC's Climate Risk Working Group should develop a Climate Risk Assessment Tool to help financial institutions, particularly smaller, community financial institutions, be able to identify their risks associated with climate change as well as their preparedness under various

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California Office: 369 Pine Street, Suite 620, San Francisco, CA 94104

climate scenarios. By clarifying expectations, FFIEC members will address FSOC Recommendation 4.8 (Review of supervisory and regulatory tools). Ideally, the Tool would be based on accepted national or international standards and would provide financial institution management with actionable steps to mitigate risks.

# 10. <u>Include climate risk as a topic in the FFIEC "Supervisory Updates and Emerging Issues" conference for examiners</u>

The FFIEC provides specialized education and training for examiners from the agencies. One such offering is the Supervisory Updates and Emerging Issues Conference. The conference provides experienced examiners with training on developments in the financial services industry, including new products, new technologies, and emerging risks and other issues. The FFIEC should include climate risk as a topic in its emerging issues conference to update examiners on this risk to the financial services industry and the measures being taken by both regulators and banks and credit unions to mitigate such risks.

# 11. <u>Use the upcoming modernized CRA proposed rules to Address the</u> <u>Disproportionate Impact of Climate Change on Low and Moderate Income</u> Communities

The FSOC report on climate-related financial risk explicitly recognizes that "climate change disproportionately affects financially vulnerable populations potentially including lower-income communities, communities of color, Native American communities, and other disadvantaged or underserved communities." Noting that while vulnerable communities may be more exposed to climate-related risks, there's also a recognition that actions to address such risk, such as through higher insurance and credit costs, may disproportionately impact financially vulnerable communities. The report calls for thoughtful and balanced policy responses.

The interagency efforts underway to modernize the Community Reinvestment Act (CRA) rules provide an opportunity for a thoughtful and balanced policy response. There are myriad ways in which the forthcoming proposed CRA rules could address the impact of climate change on low and moderate-income communities and communities of color. Ceres submitted two CRA-related comment letters.<sup>2</sup> These include several specific recommendations for your consideration with the upcoming updates of CRA.

# 12. <u>Update the Shared National Credit Program to account for climate-related risks</u>

The Shared National Credit (SNC) Program assesses credit risks and trends as well as the risk management practices associated with the largest and most complex credits shared by multiple regulated financial institutions. The SNC Program is conducted by the FRB, the OCC, and the FDIC for credits involving three or more regulated institutions for aggregate credit commitments of \$100 million or more. The most recent <a href="SNC Report">SNC Report</a> highlighted the high and increasing risk of leveraged loans as well as the industries most impacted by COVID-19 in the pool of SNC loans. The industries most impacted were oil and gas, entertainment and recreation, and transportation services.

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Given the size and impact of SNCs, the three federal prudential regulators should update the SNC review process to account for climate-related risks. While some SNC commitments could be vulnerable to severe weather events, other SNC commitments to industries that are highly dependent on fossil fuels may be affected by transition risk. To the extent that there are trends associated with climate-related risk, the agencies should highlight those in the SNC Program report.

## 13. <u>Urge the White House to designate a "Climate Risk Awareness</u> <u>Month/Week/Day" at the federal level</u>

There are commemorative designations for each month, week, and day of the year to raise awareness of issues. September is <u>National Preparedness Month</u>; October is <u>Cybersecurity Awareness Month</u>. The federal government should designate a month (or week or day) to climate risks, including risks to the financial system. Congress can do so by enacting legislation but the White House can also provide for commemorative designations by proclamation.<sup>3</sup> Dedicating a month or week to the risks posed to the financial and other industry sectors from climate change would help raise awareness of such risks beyond the environmental toll. Once designated, the financial regulators should promote the date(s) to help raise awareness.

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### Appendix A - Interagency Case Studies

### 1. Interagency Coordination on Y2K

### **Overview of Process**

Financial regulators began preparing for the Year 2000 date change (Y2K) as early as June 1996, when the Federal Financial Institutions Examination Council (FFIEC) issued an interagency joint statement concerning the potential effect of year 2000 on computer systems.<sup>4,5</sup> To address potential challenges raised by Y2K, the regulators promulgated guidance and implemented regulations over a four-year period between 1996 and 1999.

According to a statement in September 1999 from then-Comptroller of the Currency John D. Hawke, Jr., the effort consisted of the following actions<sup>6</sup>:

First, we rigorously studied the likely impact of Y2K on the banking system and we calculated what it would take to prepare for it. Second, we looked at our own internal systems and earmarked the necessary resources to bring them to a state of readiness. Third -- and perhaps most important -- we began working with the financial institutions we supervise to heighten their awareness and encourage them to move with all due haste toward Y2K solutions of their own. We encouraged, we supported, and we cajoled. Through the FFIEC, we issued more than 20 interagency policy statements, dealing with such things as testing, contingency planning, customer awareness, and more. We even took enforcement actions in those cases where it seemed warranted.

Leading up to the year 2000, bank examiners conducted Y2K-related examinations multiple times - between two and four times for each insured financial institution - and continued to oversee the largest banks. By September 1999, 99.7 percent of all federally supervised financial institutions had finished renovating and testing their systems -- "not just the systems that house their records and run their elevators, but the systems that bank customers rely upon for access to their funds."

The FFIEC agencies also developed educational content such as videos and brochures for financial institutions to use in communicating to their customers the measures taken to ensure customer funds were safe.<sup>8</sup>

Comptroller Hawke detailed the steps the FFIEC had taken to Congress in April 1999 and said the interagency coordination consisted of 9:

- Developing and disseminating detailed policy guidance to supervised institutions;
- Training and deploying examiners to conduct three or more onsite examinations of each institution;
- Setting up systems to track and monitor progress;
- Establishing and implementing vigorous enforcement programs to deal with deficiencies;

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- Coordinating with other government agencies as well as private enterprises, domestically and internationally, to share valuable Year 2000-related information;
- Conducting numerous outreach programs to educate banks and the public; and
- Helping to organize and participating in a series of interagency contingency
  planning groups to plan for the orderly resolution of problems or issues that may
  arise either systemically or with individual banks.

The FFIEC published guidance documents on the following topics and published an interim rule, which became final one year later, on Y2K-related safety and soundness standards for financial institutions.

### Guidance:

- The Effect of Year 2000 on Computer Systems (June 1996);
- Year 2000 Project Management Awareness (May 5, 1997);
- Safety and Soundness Guidelines Concerning the Year 2000 Business Risk (December 17, 1997);
- Guidance Concerning Institution Due Diligence in Connection with Service Provider and Software Vendor Year 2000 Readiness (March 17, 1998);
- Guidance Concerning the Year 2000 Impact on Customers (March 17, 1998);
- Guidance Concerning Testing for Year 2000 Readiness (April 10, 1998);
- Guidance Concerning Contingency Planning in Connection with Year 2000 Readiness (May 13, 1998);
- Guidance on Year 2000 Customer Awareness Programs (May 13, 1998);
- Customer Brochure on Year 2000 (July 6, 1998);
- Year 2000 Phase II Workprogram (July 8, 1998);
- Answers to Commonly Asked Y2K Questions (August 31, 1998);
- Frequently Asked Y2K Questions on Contingency Planning (December 11, 1998):
- Additional Year 2000 Guidance on Customer Communications (February 17, 1999);
   and
- Additional Y2K Questions on Contingency Planning (May 6, 1999).

### **Deep Dive into Interagency Action on Y2K**

On June 17, 1996, the FFIEC issued its first interagency joint statement on the potential effect of Y2K on computer systems to the CEOs of all federally supervised financial institutions, senior management of each FFIEC agency, and all examining personnel. The joint statement cautioned that the two digit field "00" in the year 2000 that would replace "99" in records would be recognized as the year 1900, which would create erroneous data or cause a system failure based on incorrect calculations. The potential impact of Y2K could have affected "all forms of financial accounting (including interest computation, due dates, pensions, personnel benefits, investments, legal commitments)" and "record keeping, such as inventory, maintenance, and file retention."

The joint statement urged examinations to "review all aspects of computer systems to include those provided by service bureaus, hardware vendors, and other software vendors." It stated that management must ensure:

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- External vendors and servicers are addressing adequately the system and software issues related to Y2K; and
- In the event external vendors are unable to achieve the requirements, institutions have taken the steps needed to continue critical operations.

The joint statement also outlined the following plan for financial institutions to mitigate Y2K-related risk:

### I. Establish a Year 2000 Team

- A. Management should consider utilizing both internal and external information systems and audit resources to ensure that a risk-based Year 2000 Action Plan is developed.
- B. An inventory of all computer operating systems, applications and files should be created. All those with year 2000 issues must be identified.

### II. Develop an Institution Wide Year 2000 Plan

- A. The initial step in developing the plan should be to consider whether current systems and files should be modified, replaced, outsourced, or discontinued. It should be noted that even if new systems are purchased, old files may still have to be modified. (All computer systems, including mainframes, personal computers, local area networks, etc., should be considered).
- B. The year 2000 plan should also identify and prioritize applications and processes that are the most date sensitive and those which are most vulnerable. Interdependent applications should be grouped together.
- C. Management and the board of directors need to ensure that adequate funds and resources are allocated so that all year 2000 projects are completed in a timely manner.

### III. Year 2000 Plan Implementation

- A. Initiate pilot projects to test solutions to identified problems. It may be feasible to work with more than one vendor in order to evaluate their various solutions/capabilities before making a final decision.
- B. Begin the process of systematically implementing year 2000 changes by priority in accordance to risk. These projects should be conducted within the framework of the system development life cycle process currently in place.
- C. Conduct post implementation reviews to ensure the integrity and functionality of the modified systems.

Interagency communications developed through the FFIEC were transmitted through the federal regulators to examiners and the financial institutions they supervised. The OCC relied on advisory letters to transmit the information, the Fed, FDIC, and Office of Thrift Supervision (OTS) used press releases, and the NCUA used letters to supervised institutions to relay the information.

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On May 5, 1997, the FFIEC issued a second statement that set out a project management process strongly encouraging federally insured depository institutions to complete an inventory of core computer functions and outline priorities for Y2K goals by September 30, 1997. The statement provides that the "five management phases necessary to complete a computer conversion program are: awareness, assessment, renovation, validation, and implementation." Banks were expected to largely complete programming changes and have testing underway for mission critical systems by December 31, 1998.

The statement included in an appendix a questionnaire from the FFIEC Task Force on Supervision to help regulatory agencies conduct assessments of financial institutions' planning efforts. 11 Regulators used the results of these assessments to determine which supervisory reviews to prioritize based on examination procedures included in a second appendix to the statement. Conversion efforts were expected to be completed by mid-1998.

In 1998, the FFIEC agencies also began supervising for Y2K-related risk for service providers and vendors in examinations, and they included risk analysis on a quarterly basis.<sup>12</sup>

In February 1998, the OTS began publishing a monthly newsletter for the agency's 750 examiners and 1200 thrift institutions it supervised. 13 Content included summaries of its findings from off-site examinations related to Y2K and the key OTS staff contacts for Y2K-related matters.

In May and October 1998, the FFIEC hosted seminars for risk management planning that included as agenda items managing the risks of emerging technologies and Y2K concerns.<sup>14</sup>

On August 31, 1998, the FFIEC issued the first of three FAQs and answers (the FAQs) regarding Y2K.<sup>15</sup> The FAQs focused on testing, documentation, and the FFIEC report distribution process. They also covered the following topics:

- Clarification of FFIEC policy concerning the types of testing documentation that financial institutions should retain:
- Expectations regarding software and operating system upgrades in 1999;
- Conversions to new mission-critical systems in 1999; and
- Procedures for regulators to examine service providers and software vendors.

On October 15, 1998, the FFIEC agencies published joint interim guidelines to adopt Y2K safety and soundness standards. The guidelines were implemented as a final rule the following year on November 29, 1999 with minimal changes. 16 The standards focused on the following topics:

- Review of mission-critical systems for Year 2000 readiness;
- Renovation of internal mission-critical systems;
- Renovation of external mission-critical systems;
- Testing of mission-critical systems;
- Business resumption contingency planning;
- Remediation contingency planning;
- Customer risk; and
- Involvement of the board of directors and management.

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On December 11, 1998, the FFIEC published its second FAQ resource regarding contingency planning that supplemented the previous FAQs and clarified expectations for completing remediation and business resumption contingency plans.<sup>17</sup>

On May 6, 1999, the FFIEC published additional answers to three Y2K FAQs regarding contingency planning.

On July 6, 1999, the FFIEC released guidance on Y2K-related fraud prevention. <sup>18</sup> The guidance encouraged institutions to enhance internal controls and security procedures and to communicate with customers about how to protect against Y2K-related fraudulent schemes. It also issued a consumer advisory for financial institutions' customers regarding Y2k-related fraud.

On June 9, 1999, the FDIC adopted an interim final rule that required certain FDIC-insured banks to implement asset and liability backup programs so that financial records would be preserved in case it suffered a Y2K-related problem and had to be placed in receivership. 19 The rule applied to FDIC-insured banks that scored less than "satisfactory" in their Y2K ratings on or after July 31, 1999.

Following the transition from 1999 to 2000, the FFIEC published on March 21, 2000, a document detailing the lessons learned from its Y2K-related preparation.

The FFIEC stated that it believed the institutions that were best prepared possessed most or all of the following 10 characteristics:

- Senior management and director involvement to ensure that the project plans were clearly defined, supported and monitored;
- Consolidation, elimination or integration of technology on an enterprise-wide basis by developing current inventories of information technology systems and applications;
- Improved oversight of service providers, software vendors and consultants;
- More formalized and effective strategies and standards for testing information technology systems;
- Detailed contingency plans that analyzed the effect of potential system failures on core business processes (e.g., deposit taking, lending, fiduciary services, etc.);
- Better safeguards to detect fraudulent, malicious, and negligent acts from both internal and external sources;
- Review of testing and contingency planning processes by internal auditors;
- Open information sharing for developing strategies and to respond to media reports or perceptions that could reduce public confidence in the financial services industry;
- Improved public relations with customers; and
- Thorough legal review to assist in vendor management, documentation retention, and legal defense.

## 2. Cybersecurity Assessment Tool

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The FFIEC developed its risk assessment tool for cyber risk less than one year after recognizing cybersecurity as a priority. When he assumed the chairmanship of the FFIEC, Comptroller Curry announced cybersecurity as his top priority.

On June 24, 2014, the FFIEC launched a dedicated page on cybersecurity to serve as a resource for financial institutions and examiners. The FFIEC stated 20:

While information security has been a core focus of supervision for decades, the FFIEC members are taking a number of steps to raise awareness of cybersecurity risks at financial institutions and the need to identify, assess, and mitigate these risks in light of the increasing volume and sophistication of cyber threats that pose risks to all industries in our society. The FFIEC Web page provides links to joint statements, webinars, and other information that may help financial institutions when thinking about the issue of cybersecurity.

It also launched a pilot program at over 500 community institutions to enable state and federal regulators to assess how the community institutions manage cybersecurity and mitigate cyber risks. In their assessments, regulators focused on: risk management and oversight; threat intelligence and collaboration; cybersecurity controls; service provider and vendor risk management; and cyber incident management and resilience. The pilot also served to help regulators enhance supervisory programs' effectiveness, guidance, and examiner training.

Within four months, on November 3, 2014, the FFIEC published general observations from its cybersecurity assessment pilot, including findings regarding inherent risks of cybersecurity and institution preparedness.<sup>21</sup>

Following the publication of its observations from its cybersecurity pilot, the FFIEC outlined its cybersecurity priorities for the remainder of 2015 on March 17, 2015. 22 The priorities included establishing seven workstreams, including a workstream on developing and issuing a self-assessment tool for financial institutions to use in evaluating their cybersecurity preparedness and respond to cyber threats. The seven workstreams focused on the following topics 23:

- **Cybersecurity Self-Assessment Tool**—The FFIEC plans to issue a self-assessment tool this year to assist institutions in evaluating their inherent cybersecurity risk and their risk management capabilities.
- **Incident Analysis**—FFIEC members will enhance their processes for gathering, analyzing, and sharing information with each other during cyber incidents.
- **Crisis Management**—The FFIEC will align, update, and test emergency protocols to respond to system-wide cyber incidents in coordination with public-private partnerships.
- **Training**—The FFIEC will develop training programs for the staff of its members on evolving cyber threats and vulnerabilities.
- **Policy Development**—The FFIEC will update and supplement its Information Technology Examination Handbook to reflect rapidly evolving cyber threats and vulnerabilities with a focus on risk management and oversight, threat intelligence and collaboration, cybersecurity controls, external dependency management, and incident management and resilience.

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- Technology Service Provider Strategy—The FFIEC's members will expand their focus on technology service providers' ability to respond to growing cyber threats and vulnerabilities.
- **Collaboration with Law Enforcement and Intelligence Agencies**—The FFIEC will build upon existing relationships with law enforcement and intelligence agencies to share information on the growing cybersecurity threats and response techniques.

Shortly after, on June 30, 2015, the FFIEC released its Cybersecurity Assessment Tool (CAT)<sup>24</sup> to help institutions identify risks and assess cybersecurity readiness.<sup>25</sup> The CAT was intended for use by financial institutions of all sizes and was designed to be dynamic so that it could be updated as threats, vulnerabilities, and operational environments became more sophisticated. It also served to help examiners in their assessments of cyber risk. The FFIEC published resources to encourage use of the CAT such as "an executive overview, a user's guide, an online presentation explaining the Assessment, and appendices mapping the Assessment's baseline maturity statements to the FFIEC Information Technology Examination Handbook, mapping all maturity statements to the National Institute of Standards and Technology's Cybersecurity Framework, and providing a glossary of terms."<sup>26</sup>

On October 26, 2016, the federal banking regulators - OCC, Fed, and FDIC - published an advance notice of proposed rulemaking (ANPR) to enhance cyber risk management standards for large and interconnected entities under their supervision and the entities' service providers.<sup>27</sup> The ANPR covered the following topics: cyber risk governance; cyber risk management; internal dependency management; external dependency management; and incident response, cyber resilience, and situational awareness.

Meanwhile, the FFIEC updated the CAT in 2017 to address changes to the FFIEC IT Examination Handbook and provide additional response options and practices and processes that represented the practices of the institution in supporting its cybersecurity activity assessment.<sup>28</sup>

The ANPR has not yet come to fruition as a proposed or final rule, however, in March 2020, the Fed was expecting further action on the enhanced standards.<sup>29</sup>

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